CLAIMS:

- 1. Use of an extract of Zingiber comprising at least one cysteine protease as a food improver for a protein containing food.
- 2. Use according to Claim 1 wherein the food is meat or fish.
- 3. Use according to Claim 1 wherein the food is a cereal, a legume, a nut or dairy product containing food.
- 4. Use according to Claim 3, wherein the cereal is wheat, oats, barley, rye, sorghum, or corn.
- 5. Use according to Claim 4, wherein the food is a bakery product, breakfast cereal or snack food.
- 6. Use according to Claim 4 or 5 wherein the extract is useful for the production of alcohol from cereal.
- 7. Use according to Claim 5, wherein the bakery product is selected from the list comprising: breads, cakes, muffins, crumpets, English muffins, pizza bases and buns.
- 8. Use according to any one of Claims 1 to 4, wherein the food is an animal food product.
- 9. Use according to any one of Claims 1 to 8, wherein the extract is from Zingiber Officiale.
- 10. Use according to any one of Claims 1 to 9, wherein the enzyme is extracted from the rhizome.

- 11. Use according to Claim 9 or 10, wherein the extract comprises Zingibain.
- 12. Use according to any one of Claims 1 to 11, wherein the nutritional value of the food is enhanced and/or absorption of the food is enhanced.
- 13. A process of treating a food product or a component material thereof with an extract *Zingiber* comprising at least one cysteine protease.
- 14. A process according to Claim 12, wherein the food or component is meat, a cereal, a legume, a nut or dairy product.
- 15. A process according to Claim 13 wherein the food is a bakery product.
- 16. A process according to Claim 13, wherein the component is flour.
- 17. A food or food component treated with or comprising an extract of Zingiber including at least one cysteine protease.
- 18. A food according to Claim 17, wherein the food is meat.
- 19. A food according to Claim 18, wherein the meat has a reduced fat content, a more tender and/or juicy texture, and/or has a higher water content than the corresponding untreated meat.
- 20. A food according to Claim 19 wherein the percentage water content is increased in an amount of from about 1% to about 5%.
- 21. A food according to Claim 19 wherein the fat content is reduced in amount of from about 1% to about 5%.

- 23. A food product according to Claim 19, wherein the food is a cereal containing food or snack food.
- 24. A food according to Claim 19, wherein the food is pasta.
- 25. A food according to Claim 24, wherein the cereal containing food is a bakery product.
- 26. A food according to Claim 24 wherein the bakery product is selected from the group comprising bread, cake, muffin, crumpet, English muffin, pizza base and buns.
- 25. A food according to Claim 23, wherein the bakery product is bread, wherein the bread has an improved texture and/or crust.
- 27. A food according to Claim 17 wherein the food is an animal food product.
- 28. A food according to any one of Claims 22 to 27, wherein the food product has reduced allergenicity to the relevant population in comparison to a corresponding untreated food.
- 29. A food according to any one of Claims 17 to 28, wherein the food or component has an increased shelf-life in comparison to a food or component not so treated.
- 30. A food according to any one of Claims 16 to 27, wherein the food has increased nutritional value and/or increased absorption in comparison to a food not so treated.
- 31. A pharmaceutical and/or health supplement formulation comprising an extract of Zingiber comprising at least one cysteine protease.
- 32. A formulation according to Claim 31, which comprises one or more excipients.

- 33. A probiotic formulation suitable for human consumption comprising one or more bacteria and/or yeast capable of synthesising *Zingibain in vivo*.
- 34. An extract of *Zingiber* comprising at least one cysteine protease for use in treatment.
- 35. Use of an extract of *Zingiber* comprising at least one cysteine protease or a composition comprising the same in the manufacture of a medicament for the treatment of an inflammatory disease.
- 36. Use according to Claim 35, wherein the inflammatory disease is gluten intolerance, such as Celiac disease, ulcerative colitis, inflammatory bowel disease and/or Crohn's disease.
- 37. A method of treatment comprising administering to a person a therapeutically effective amount of an extract of *Zingiber* comprising at least one cysteine protease.
- 38. A method according to Claim 37 for the treatment of an inflammatory disease.
- 39. A method according to Claim 35, wherein the inflammatory disease is gluten intolerance, such as Celiac disease, ulcerative colitis, inflammatory bowel disease, Crohn's disease or infection by a pathogenic agent.